

# Pharmaceutical Preparations, Except Biologicals: 2004

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### SUMMARY OF FINDINGS

The total value of shipments for pharmaceutical preparations in the United States totaled \$113.0 billion in 2004, a 5.1-percent increase from \$107.6 billion in 2003. The leading product category was pharmaceutical preparations that act on the central nervous system and sense organs in humans, which increased 6 percent to \$26.3 billion in 2004 from \$24.8 billion in 2003.

The value of shipments for individual product categories in 2004 were: pharmaceutical preparations affecting neoplasm, endocrine system, and metabolic diseases for human use

totaled \$21.4 billion, a 6.8-percent increase from \$20.1 billion in 2003; pharmaceutical preparations acting on the central nervous system and sense organ for human use totaled \$26.3 billion, a 6.0-percent increase from \$24.8 billion in 2003; pharmaceutical preparations acting on the cardiovascular system for human use totaled \$10.3 billion, a 7.0-percent increase from \$9.7 billion in 2003; pharmaceutical preparations acting on the respiratory system for human use totaled \$15.0 billion, a 9.4 percent increase from \$13.8 billion in 2003; pharmaceutical preparations acting on the digestive or genito-urinary system for human use totaled \$16.0 billion, a 6.5-percent increase from \$15.1 billion in 2003; pharmaceutical preparations acting on the skin for human use totaled \$3.2 billion, which is a 3.6-percent increase from \$3.1 billion in 2003; vitamin, nutrient, and hematinic preparations for human use totaled \$7.3 billion, a 5.4-percent increase from \$6.9 billion in 2003; pharmaceutical preparations affecting parasitic and infective diseases for human use totaled \$11.1 billion, a 6.1-percent decrease from \$11.8 billion in 2003; and pharmaceutical preparations for veterinary use totaled \$2.4 billion, a 3.6-percent increase from 2003.

For general CIR information, explanation of general terms and historical note, see the appendix.

Address inquiries concerning these data to Primary Goods Industries Branch, Manufacturing and Construction Division, (MCD), Washington, DC 20233-6900 or call Luis A. Blanco, 301-763-4643. For mail or fax copies of this publication, please contact the Information Services Center, MCD, Washington, DC 20233-6900, or call 301-763-4673.

# U S C E N S U S B U R E A U

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU

Table 1. Value of Product Class Shipments of Pharmaceutical Preparations, Except Biologicals: 2000 to 2004  
[In thousands of dollars]

Product code	Product description	2004	2003	2002	2001	2000
	Pharmaceutical preparations.....	113,042,036	107,561,388	100,741,449	90,181,771	79,261,643
3254121100	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	21,438,071	20,064,796	17,499,148	14,818,930	9,783,996
3254124100	Pharmaceutical preparations acting on the central nervous system and sense organs, for human use.....	26,250,296	24,759,304	24,344,732	18,974,834	18,508,356
3254127100	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	10,346,671	9,670,724	10,338,754	9,798,444	8,992,634
325412A100	Pharmaceutical preparations acting on the respiratory system, for human use.....	15,046,023	r/ 13,757,675	12,504,287	11,691,747	10,179,464
325412D100	Pharmaceutical preparations acting on the digestive or genito-urinary system, for human use.....	16,028,598	r/ 15,051,690	13,373,247	12,615,660	10,046,469
325412G100	Pharmaceutical preparations acting on the skin, for human use.....	3,192,436	3,082,863	2,844,436	2,708,046	2,941,278
325412L100	Vitamin, nutrient, and hematinic preparations, for human use.....	7,251,189	6,876,680	6,028,849	5,883,934	5,676,429
325412P100	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,128,697	11,848,410	11,336,918	11,192,713	11,036,891
325412T100	Pharmaceutical preparations for veterinary use.....	2,360,055	r/ 2,449,246	2,471,078	2,497,463	2,096,126

r/Revised 5 percent or more than previously published data.

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2004 and 2003  
[In thousands of dollars]

Product code	Product description	2004				2003			
		Total	Pre- scription legend	Nonpre- scription	Bulk ship- ments 1/	Total	Pre- scription legend	Nonpre- scription	Bulk ship- ments 1/
325412	Pharmaceutical preparations (except biologicals).....	113,042,036	97,150,147	13,990,109	1,901,780	107,561,388	91,463,344	14,319,568	1,778,476
3254121	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use.....	21,438,071	21,262,640	13,877	161,554	20,064,796	19,902,782	31,726	r/ 130,288
	Hormones and synthetic substitutes:								
	Corticoids:								
3254121111	Systemic.....	543,793	(D)	(D)	(D)	443,539	(D)	(D)	(D)
3254121116	Local and topical, including anti-infective combinations.....	479,379	469,187	10,192	-	460,050	(D)	(D)	-
3254121121	Androgens.....	88,476	88,476	-	(D)	88,891	88,891	-	(D)
3254121126	Estrogens.....	656,043	656,043	-	-	495,826	495,826	-	-
3254121131	Insulin and antidiabetic agents.....	2,291,758	2,291,758	-	(D)	2,126,776	2,126,776	-	(D)
3254121136	ACTH (corticotropin).....	(D)	(D)	-	-	(D)	(D)	-	-
3254121141	Oral contraceptive preparations.....	a/ 473878	a/ 473878	-	-	a/ 579826	a/ 579826	-	-
3254121146	Progestogens (excluding premenstrual tension preparations, see code 325412D185).....	217,062	217,062	-	18,469	(D)	(D)	-	(D)
3254121151	Sex hormone combinations, (except progestogen combinations).....	(D)	(D)	-	-	(D)	(D)	-	-
3254121156	Thyroid and antithyroid preparations, including iodides.....	972,673	972,673	-	(D)	937,374	937,374	-	(D)
3254121161	Anabolic agents.....	7,853	7,853	-	-	(D)	(D)	-	-
3254121166	Other hormone preparations.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Antineoplastic agents:								
3254121171	Radioactive isotopes for internal use.....	(D)	(D)	-	-	(D)	(D)	-	-
3254121176	Specific antineoplastic agents.....	3,634,126	3,634,126	-	(D)	r/ 3,010,371	r/ 3010371	-	(D)
3254121181	Other pharmaceutical preparations affecting neoplasms, the endocrine system, and metabolic, for human use.....	11,336,322	(D)	(D)	91,694	10,834,434	(D)	(D)	r/ 92,312
3254124	Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use.....	26,250,296	23,731,453	2,126,922	391,921	24,759,304	21,925,931	r/ 2344903	488,470
3254124111	Parasympathomimetic cholinergic drugs.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254124114	Skeletal muscle relaxants.....	443,801	(D)	(D)	(D)	299,754	299,754	-	(D)
	Internal analgesics and antipyretics:								
	Narcotic:								
3254124117	Opium and derivatives.....	416,943	416,943	-	-	586,205	586,205	-	-
3254124121	Synthetic narcotics.....	2,445,274	2,445,274	-	(D)	1,844,195	1,844,195	-	(D)
	Nonnarcotic:								
	Salicylates:								
3254124124	Aspirin (acetylsalicylic acid).....	265,306	(D)	(D)	(D)	272,139	(D)	(D)	(D)
3254124127	Other salicylates, such as sodium salicylate 2/.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
3254124131	Aspirin combinations.....	136,593	6,651	129,942	-	139,424	13,968	125,456	-
3254124134	Acetaminophen and combinations.....	562,093	92,920	469,173	26,781	646,602	82,801	563,801	26,273
3254124137	Antiarthritics (nonhormonal).....	1,198,717	984,005	214,712	83,151	2,726,151	2,536,629	189,522	81,672
3254124141	Other internal analgesics and antipyretics, including effervescent types and suppositories 2/.....	213,066	(D)	(D)	(D)	250,458	(D)	(D)	(D)
3254124144	Anticonvulsants (except phenobarbital).....	1,498,830	1,498,830	-	(D)	1,255,507	1,255,507	-	(D)
	Psychotherapeutic agents:								
3254124147	Antidepressants.....	5,613,083	5,613,083	-	(D)	4,898,412	4,898,412	-	(D)
	Tranquilizers:								
3254124151	Phenothiazine derivatives.....	112,405	112,405	-	(D)	160,616	160,616	-	(D)
3254124154	Other tranquilizers.....	45,789	45,789	-	-	39,319	39,319	-	-
3254124157	Other psychotherapeutic agents.....	4,710,699	4,710,699	-	(D)	3,861,251	3,861,251	-	(D)
	Central nervous system stimulants (respiratory and cerebral stimulants, including sympathomimetic agents employed mainly as CNS stimulants); excluding nondrug dietaries for weight control):								
3254124161	Amphetamines.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254124164	Anorexiant (except amphetamines).....	52,014	(D)	(D)	(D)	69,566	(D)	(D)	(D)
3254124167	Other CNS stimulants.....	1,080,130	1,078,428	1,702	(D)	725,862	723,878	1,984	8,919
	Sedatives and hypnotics:								
	Prescription:								
3254124171	Barbiturates.....	47,189	47,189	(X)	(D)	r/ 40,026	40,026	(X)	(D)
3254124174	Nonbarbiturates.....	330,255	330,255	(X)	(D)	r/ 225,171	225,171	(X)	(D)
	Nonprescription:								
3254124177	Sleep inducers.....	66,842	(X)	66,842	-	98,283	(X)	98,283	-
3254124181	Calming agents.....	(D)	(X)	(D)	-	(D)	(X)	(D)	-
	Anesthetics (except urinary tract anesthetics and skin preparations used as antipruritics):								
3254124184	Local and topical.....	242,169	(D)	(D)	(D)	263,421	(D)	(D)	(D)
3254124187	General.....	893,326	(D)	(D)	(D)	620,526	(D)	(D)	(D)

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2004 and 2003  
[In thousands of dollars]

Product code	Product description	2004				2003			
		Total	Pre- scription legend	Nonpre- scription	Bulk ship- ments 1/	Total	Pre- scription legend	Nonpre- scription	Bulk ship- ments 1/
	Eye and ear preparations, excluding anti-infectives, corticoids and antibacterials and antiseptics:								
3254124191	Mydriatics and miotics.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
3254124193	Contact lens solutions.....	569,412	-	569,412	(D)	563,922	-	563,922	(D)
3254124195	Other eye and ear preparations.....	1,165,119	(D)	(D)	(D)	1,091,179	(D)	(D)	(D)
3254124197	Other pharmaceutical preparations acting on the central nervous system and the sense organs, for human use.....	3,319,592	3,132,957	186,635	163,269	3,190,975	2,978,618	212,357	210,164
3254127	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	10,346,671	(D)	(D)	143,377	9,670,724	(D)	(D)	(D)
3254127111	Anticoagulants.....	972,919	(D)	(D)	(D)	896,809	(D)	(D)	(D)
3254127116	Hemostatics.....	(D)	(D)	-	-	(D)	(D)	-	-
3254127121	Digitalis preparations.....	(D)	(D)	-	(D)	(D)	(D)	-	(D)
	Hypotensives:								
3254127126	Rauwolfia-alkaloid preparations.....	(D)	(D)	-	-	9,258	9,258	-	-
3254127131	Beta receptor blocking agents.....	241,052	(D)	(D)	(D)	211,836	211,836	-	(D)
3254127136	Other hypotensives.....	436,413	436,413	-	(D)	455,947	455,947	-	(D)
	Vasodilators:								
3254127141	Coronary.....	(D)	(D)	-	(D)	1,097,691	1,097,691	-	(D)
3254127146	Peripheral.....	(D)	(D)	-	-	(D)	(D)	-	-
3254127151	Antiarrhythmics, such as propanolol and quinidine.....	196,204	196,204	-	(D)	108,103	108,103	-	(D)
3254127156	Calcium channel blockers such as isoptin, calan, procardia, cardizem, adalat.....	613,470	613,470	-	(D)	702,036	702,036	-	(D)
3254127161	Ace inhibitors, such as vasotec, capoten, prinvil, and zestril.....	960,249	960,249	-	(D)	1,391,979	1,391,979	-	-
3254127166	Other pharmaceutical preparations, acting on the cardiovascular system, including vasopressors, and antiheparin agents, for human use.....	4,702,971	(D)	(D)	34,918	3,973,072	(D)	(D)	(D)
325412A	Pharmaceutical preparations acting on the respiratory system, for human use.....	15,046,023	12,702,993	2,299,463	43,567 r/	13,757,675 r/	11,194,920 r/	2,498,808 r/	63,947
325412A111	Antihistamines (except cold preparations and antiemetics).....	2,149,185	(D)	(D)	(D)	2,299,427	(D)	(D)	(D)
325412A116	Bronchial dilators, including antiasthmatics.....	4,486,366	4,470,031	16,335	(D)	3,581,071	3,566,735	14,336	(D)
	Cough and cold preparations (prescription):								
	Cough preparations and expectorants (containing antitussive or other ingredients intended primarily to treat cough only):								
325412A121	Narcotic.....	(D)	(D)	(X)	-	(D)	(D)	(X)	-
325412A126	Nonnarcotic.....	36,776	36,776	(X)	(D)	r/ 36154	36,154	(X)	(D)
	Cold preparations containing combinations of the following ingredients, (but not antitussive) nasal decongestant, antihistamine, analgesic, bioflavonoid, or antibiotic):								
325412A131	Nasal decongestants.....	(D)	(D)	(X)	-	(D)	(D)	(X)	-
325412A136	Antihistamine cold preparations.....	13,894	13,894	(X)	-	16,494	16,494	(X)	-
325412A141	Other prescription cold preparations.....	6,914	6,914	(X)	(D)	r/ 7,481	7,481	(X)	-
325412A146	Cough and cold combinations (prescription).....	60,655	60,655	(X)	(D)	77,040	77,040	(X)	(D)
	Cough and cold preparations (nonprescription):								
	Decongestants:								
325412A151	Nasal sprays.....	99,268	(X)	99,268	-	96,749	(X)	96,749	-
325412A156	Nose drops.....	(D)	(X)	(D)	-	(D)	(X)	(D)	-
325412A161	Other decongestants.....	112,641	(X)	112,641	(D)	123,250	(X)	123,250	(D)
325412A166	Cough syrups.....	663,052	(X)	663,052	-	698,486	(X)	698,486	-
325412A171	Capsules and tablets.....	b/ 475,608	(X)	b/ 475,608	(D)	b/ 735,875	(X)	b/ 735,875	(D)
325412A176	Lozenges.....	11,947	(X)	11,947	-	10,029	(X)	10,029	-
325412A181	Topical preparations.....	(D)	(X)	(D)	-	(D)	(X)	(D)	-
325412A186	Cough drops.....	(D)	(X)	(D)	-	(D)	(X)	(D)	-
325412A191	Other nonprescription cough and cold preparations.....	174,130	(X)	174,130	(D)	49,493	(X)	49,493	(D)
325412A194	Beta agonists such as proventil and ventolin.....	740,348	(D)	(D)	(D)	383,176	(D)	(D)	(D)
325412A197	Other pharmaceutical preparations acting on the respiratory system, for human use.....	5,783,797	5,774,782	9,015	5,631 r/	5,374,303 r/	5,367,251 r/	7,052 r/	4,671
325412 D	Pharmaceutical preparations acting on the digestive or the genito-urinary systems, for human use.....	16,028,598	14,471,147	(D)	(D) r/	15,051,690 r/	13,523,127 r/	1,179,983 r/	348,580
	Digestive system preparations:								
325412D111	Enzymes.....	72,364	61,500	10,864	(D)	(D)	(D)	10,726	(D)
325412D114	Antacids, including acid neutralizing products with coating functions, but excluding effervescent salicylate products classified as analgesics.....	660,886	(D)	(D)	(D) r/	1,355,339	(D)	(D)	(D)

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[In thousands of dollars]

Product code	Product description	2004				2003			
		Total	Pre- scription legend	Nonpre- scription	Bulk ship- ments 1/	Total	Pre- scription legend	Nonpre- scription	Bulk ship- ments 1/
325412D117	Antidiarrheals.....	805,535	(D)	(D)	(D)	773,662	(D)	(D)	(D)
	Laxatives:								
325412D121	Irritants.....	78,779	(D)	(D)	-	87,938	(D)	(D)	-
325412D124	Bulk producing.....	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)
325412D127	Fecal softeners.....	51,509	17,346	34,163	(D)	48,813	(D)	(D)	(D)
325412D131	Emollients.....	(D)	-	(D)	-	(D)	-	(D)	-
325412D134	Saline.....	24,272	-	24,272	-	21,600	-	21,600	-
325412D137	Enema specialties.....	81,676	(D)	(D)	-	52,245	(D)	(D)	-
325412D141	Digestants.....	(D)	(D)	(D)	(D)	(D)	-	(D)	(D)
325412D144	Bile therapy preparations, including bile products, cho- leretics, and chologogues.....	3,475	(D)	(D)	-	4,246	(D)	(D)	-
325412D147	Antinauseants and motion sickness remedies (antiemetics), including antihistaminic anti- emetic preparations.....	293,905	291,958	1,947	(D)	466,723	(D)	(D)	(D)
325412D151	Lipotropics and cholesterol reducers.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412D154	Diet aids containing local anesthetics such as benzocaine.....	8,840	(D)	(D)	(D)	(D)	(D)	-	(D)
	Antispasmodics and anticho- linergics:								
325412D157	Synthetics.....	5,647	5,647	-	-	10,575	10,575	-	-
325412D161	Ataractic combinations.....	(D)	(D)	-	-	(D)	(D)	-	-
325412D164	Belladonna and derivatives.....	11,938	11,938	-	(D)	(D)	(D)	-	(D)
325412D167	H2 Blocking agents such as zantac, tagemet, carafate, and pepcid.....	1,703,614	(D)	(D)	(D)	1,593,442	(D)	(D)	-
325412D171	Other antispasmodics and anticholinergics.....	40,422	(D)	(D)	-	35,355	(D)	(D)	-
325412D174	Other digestive system preparations, including emetics.....	416,743	(D)	(D)	(D)	350,998	(D)	(D)	(D)
325412D177	Genito-urinary preparations: Urinary antibacterials and antiseptics.....	201,073	196,038	5,035	(D)	164,252	159,653	4,599	(D)
	Diuretics, excluding amino- phyllne, xanthine, and rauwolfia-diuretic combin- ations (see cardiovascular preparations):								
325412D181	Thiazides and related agents.....	54,555	54,555	-	-	(D)	(D)	-	-
325412D184	Other diuretics.....	119,582	(D)	(D)	-	116,581	(D)	(D)	-
325412D187	Oxytocics.....	75,175	75,175	-	-	72,431	72,431	-	-
325412D191	Contraceptive agents (except oral contraceptives) aerosols, jels, sponges, and creams.....	(D)	(D)	(D)	-	(D)	(D)	(D)	-
325412D193	Premenstrual tension prep- arations.....	(D)	-	(D)	-	(D)	-	(D)	-
325412D195	Vaginal cleaners.....	54,224	(D)	(D)	-	51,224	(D)	(D)	-
325412D197	Other pharmaceutical prep- arations acting on the genito- urinary system, including urinary tract anesthetics, for human use.....	1,585,604	1,575,907	9,697	(D)	1,270,431	(D)	(D)	(D)
325412G	Pharmaceutical preparations acting on the skin, for human use.....	3,192,436	(D)	(D)	(D)	3,082,863	(D)	(D)	(D)
	Dermatological preparations:								
325412G111	Emollients and protectives, including burn remedies and ointment bases.....	623,112	b/ 45,001	578,111	-	550,048	b/ 49,875	500,173	-
325412G116	Antipruritics and local anesthetic skin preparations.....	286,717	(D)	(D)	(D)	247,300	(D)	(D)	(D)
325412G121	Coal tar, sulfur and resorcinol preparations.....	8,301	(D)	(D)	-	9,041	(D)	(D)	-
325412G126	Antiacne preparations.....	518,351	(D)	(D)	(D)	512,674	(D)	(D)	(D)
325412G131	Antidandruff and anti- seborrheic preparations (except dandruff shampoos).....	43,929	(D)	(D)	-	24,641	13,390	11,251	-
325412G136	Other dermatological preparations.....	794,424	738,647	55,777	(D)	r/ 833,240	r/ 765,050	r/ 68,190	(D)
325412G141	Hemorrhoidal preparations.....	88,157	12,162	75,995	-	93,297	4,898	88,399	-
	External analgesics and counter- irritants:								
325412G146	Ointments, jellies, pastes, creams, cerates, and salves.....	346,698	(D)	(D)	-	390,048	(D)	(D)	-
325412G151	Liquid, excluding rubbing alcohol, but including lini- ments.....	20,109	-	20,109	-	21,229	-	21,229	-
325412G156	Rubbing alcohol.....	29,909	(D)	(D)	-	21,641	(D)	(D)	-
325412G161	Other external analgesics and counterirritants.....	28,145	(D)	(D)	(D)	20,286	(D)	(D)	(D)
325412G166	Other pharmaceutical preparations acting on the skin, for human use.....	338,289	246,962	91,327	(D)	r/ 317,008	r/ 232,820	84,188	-
325412L	Vitamin, nutrient, and hematinic preparations, for human use.....	7,251,189	1,725,342	5,295,304	230,543	6,876,680	1,755,068	4,863,639	257,973
	Vitamins:								
325412L111	Multivitamins, plain and with minerals, (except B complex vitamins and fish liver oils).....	2,714,235	28,767	2,685,468	54,730	2,313,223	20,287	2,292,936	41,044
325412L116	Pediatric vitamin preparations (drops, suspensions and chew- able tablets).....	162,555	(D)	(D)	1,112	152,117	(D)	(D)	850
325412L121	Prenatal vitamin preparations.....	69,200	(D)	(D)	825	78,076	(D)	(D)	483
325412L126	B complex preparations.....	279,712	23,944	255,768	5,218	230,748	(D)	(D)	4,194
325412L131	Fluoride preparations.....	2,657	(D)	(D)	(D)	3,248	(D)	(D)	(D)
325412L136	All other vitamin preparations.....	726,051	62,606	663,445	64,292	755,145	37,213	717,932	65,074

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2004 and 2003  
[In thousands of dollars]

Product code	Product description	2004				2003			
		Total	Pre- scription legend	Nonpre- scription	Bulk ship- ments 1/	Total	Pre- scription legend	Nonpre- scription	Bulk ship- ments 1/
325412L141	Fish liver oils (cod, etc.).....	112,775	(D)	(D)	196	81,740	(D)	(D)	(D)
325412L146	Nutrients, excluding therapeutic dietary foods and infant formulas.....	347,302	68,443	278,859	72,011	345,050	27,217	317,833	96,757
325412L151	Tonics and alteratives.....	26,916	-	26,916	-	9,336	-	9,336	-
	Hematinics:								
	With B12:								
325412L156	Oral.....	33,021	(D)	(D)	(D)	15,976	(D)	(D)	41
325412L161	Parenteral.....	(D)	(D)	(D)	-	(D)	(D)	(D)	-
	Other hematinics:								
325412L166	Oral.....	27,821	(D)	(D)	(D)	25,414	(D)	(D)	(D)
325412L171	Parenteral.....	(D)	(D)	-	-	(D)	(D)	-	-
325412L176	Hospital solutions, including dextran, etc., but excluding biologicals such as blood plasma.....	807,463	(D)	(D)	-	(D)	(D)	(D)	(D)
325412L181	Other vitamin, nutrient, and hematinic preparations, for human use.....	1,655,872	532,172	1,123,700	27,575	1,621,166	r/ 540,411	r/ 1,080,755	37,122
325412P	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,128,697	10,089,276	824,221	215,200	11,848,410	10,600,835	1,040,540	207,035
	Anti-infective agents, excluding corticoid anti-infective combi- nations (see product code 325412I015):								
325412P111	Amebicides and trichomonocides.....	34,564	34,564	-	-	30,028	30,028	-	-
325412P114	Anthelmintics.....	1,030	(D)	(D)	-	(D)	(D)	(D)	-
	Systemic antibiotic preparations:								
	Broad and medium spectrum (single or in combinations with other antibiotics):								
325412P117	Tetracyclines, including chlortetracycline and congeners.....	158,200	158,200	-	(D)	88,639	88,639	-	(D)
325412P121	Cephalosporins, such as cefamandolenaferate and dolenafate and cephalixin.....	1,349,633	1,349,633	-	(D)	968,252	968,252	-	(D)
325412P124	Erythromycins, such as erythromycin ethyl- succinate and erythro- mycin stearate.....	46,849	46,849	-	-	45,359	45,359	-	-
	Penicillins (single):								
	Semisynthetic penicillins, such as amoxicillins, and ampicillin:								
325412P127	Injectable.....	(D)	(D)	-	-	(D)	(D)	-	-
325412P131	Other forms.....	475,773	475,773	-	-	1,853,745	1,853,745	-	-
	Other penicillins (except semisynthetic), such as penicillin V and peni- cillin G:								
325412P134	Injectable.....	2,794	2,794	-	-	(D)	(D)	-	-
325412P137	Other forms.....	(D)	(D)	-	-	(D)	(D)	-	-
325412P141	Other broad and medium spectrum antibiotics (except sulfa-antibiotic combinations).....	929,627	(D)	(D)	-	1,256,877	(D)	(D)	-
325412P144	Antibiotics in combination with sulfonamides.....	(D)	(D)	-	-	(D)	(D)	-	-
325412P147	Other systemic antibiotic preparations, including narrow-spectrum antibiotics and streptomycins.....	113,125	113,125	-	(D)	152,123	152,123	-	(D)
325412P151	Topical antibiotic preparations.....	305,445	(D)	(D)	-	291,538	(D)	(D)	-
	Tuberculostatic agents:								
325412P154	Isoniazid (isonicotinic acid hydrazide) preparations.....	2,598	2,598	-	-	4,147	4,147	-	-
325412P157	Other antituberculars.....	(D)	(D)	-	-	(D)	(D)	-	-
325412P161	Antimalarials (plasmodicides).....	50,239	50,239	-	(D)	47,452	47,452	-	(D)
325412P164	Sulfonamides (except antibiotic sulfonamide combinations).....	26,018	26,018	-	-	22,871	22,871	-	-
325412P167	Antifungal preparations.....	1,220,322	(D)	(D)	-	985,925	876,294	109,631	-
325412P171	Antivirals, systemic, such as zovirax, and retrovir.....	4,022,714	(D)	(D)	72,727	r/ 3,833,637	(D)	(D)	67,387
325412P174	Other anti-infective agents.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-
	Antibacterials and antiseptics:								
325412P177	General.....	391,850	(D)	(D)	6,837	397,494	(D)	(D)	r/ 7,791
325412P181	Mouth and throat preparations.....	(D)	9,045	(D)	(D)	(D)	5,947	(D)	(D)
325412P184	Other pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	421,188	402,445	18,743	(D)	421,632	405,470	16,162	(D)
325412T	Pharmaceutical preparations, for veterinary use.....	2,360,055	1,368,771	915,962	75,322	r/ 2,449,246	r/ 1,496,220	r/ 863,418	89,608
325412T111	Anesthetics.....	48,635	48,635	-	-	44,672	44,672	-	-
325412T116	Anthelmintics.....	269,560	221,737	47,823	(D)	277,374	230,457	46,917	(D)
	Antibiotics:								
325412T121	Tetracyclines.....	25,378	(D)	(D)	-	17,816	(D)	(D)	(D)
325412T126	Penicillins.....	31,270	18,813	12,457	-	33,963	(D)	(D)	(D)
325412T131	Other antibiotics.....	561,394	444,682	116,712	(D)	628,182	525,256	102,926	(D)
325412T136	Antiseptics, wound dressings and fungicides.....	98,029	(D)	(D)	(D)	r/ 86,996	(D)	(D)	(D)
325412T141	Hematinics.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
325412T146	Hemostatics.....	(D)	-	(D)	-	(D)	-	(D)	-
	Hormones:								
325412T151	Insulin preparations.....	(D)	(D)	-	-	(D)	(D)	-	-
325412T156	ACTH (corticotropin) prep- arations.....	(D)	(D)	-	-	(D)	(D)	-	-

Table 2. Value of Shipments of Pharmaceutical Preparations, Except Biologicals: 2004 and 2003  
[In thousands of dollars]

Product code	Product description	2004				2003			
		Total	Pre- scription legend	Nonpre- scription	Bulk ship- ments 1/	Total	Pre- scription legend	Nonpre- scription	Bulk ship- ments 1/
325412T161	Other hormone preparations.....	153,106	(D)	(D)	-	144,289	(D)	(D)	-
325412T166	Intravenous solutions and electrolytes.....	13,140	(D)	(D)	(D)	11,453	(D)	(D)	(D)
325412T171	Nitrofurans.....	(D)	-	(D)	(D)	(D)	-	(D)	(D)
325412T176	Nutrients and tonics.....	(D)	(D)	1,266	(D)	(D)	(D)	1,047	(D)
325412T181	Parasiticides, external.....	157,511	(D)	(D)	(D)	r/ 164,458	(D)	(D)	(D)
325412T186	Sulfonamides.....	9,217	(D)	(D)	-	9,688	(D)	(D)	-
325412T191	Tranquilizers and ataractics.....	31,206	(D)	(D)	-	26,406	(D)	(D)	-
325412T194	Vitamins and minerals.....	163,296	3,828	159,468	(D)	166,011	4,519	161,492	(D)
325412T197	Other pharmaceutical preparations, for veterinary use.....	706,921	369,794	337,127	(D)	r/ 729,125	r/ 426,780	r/ 302,345	(D)

- Represents zero. D Withheld to avoid disclosing data for individual companies. r/Revised 5 percent from previously published data. X Not applicable.

1/Data for "bulk shipments" are excluded from all horizontal ten-digit product detail totals; however, these data are included in all seven-digit product classes and six-digit industry level totals. Since bulk shipments are typically reported by a small number of producers, and often must be suppressed, inclusion of bulk shipments in all horizontal totals would require the suppression of additional detail.

2/Product code 3254124127 is combined with product code 3254124141 to avoid disclosing data for individual companies.

Note: Percent of estimation of each item is indicated as follows: a/10 to 25 percent of this item is estimated. b/26 to 50 percent of this item is estimated. c/Over 50 percent of this item is estimated.

Table 3. Domestic Value of Shipments, Exports, Imports, and Apparent Consumption of Pharmaceutical Preparations, Except Biologicals: 2004 and 2003+A45  
[Thousands of dollars]

Product code	Product description	Manu- facturers' shipments (value f.o.b. plant)	Exports of domestic merchan- dise 1/	Percent exports to manu- facturers' shipments	Imports for consump- tion 2/ (value)	Apparent consump- tion 3/ (value)	Percent imports to apparent consump- tion (value)
<b>2004</b>							
	Pharmaceutical preparations.....	113,042,036	4,845,281	4.3	5,945,812	114,142,567	5.2
3254121100	Pharmaceutical preparations affecting neoplasms, endo- crine system, and metabolic diseases, for human use.....	21,438,071	2,465,162	11.5	3,943,441	22,916,350	17.2
3254124100	Pharmaceutical preparations acting on the central nervous system and sense organs, for human use.....	26,250,296	367,635	1.6	464,773	26,347,434	1.8
3254127100	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	10,346,671	33,226	0.3	879,555	11,193,000	7.9
325412A100	Pharmaceutical preparations acting on the respiratory system, for human use.....	15,046,023	288,953	1.9	271,655	15,028,725	1.8
325412D100	Pharmaceutical preparations acting on the digestive or genito-urinary system, for human use.....	16,028,598	88,482	0.6	198,812	16,138,928	1.2
325412G100	Pharmaceutical preparations acting on the skin, for human use.....	3,192,436	20,432	0.6	10,088	3,182,092	0.3
325412L100	Vitamin, nutrient, and hematinic preparations, for human use.....	7,251,189	345,682	4.8	128,892	7,034,399	1.8
325412P100	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,128,697	1,171,627	10.5	1,125,360	11,082,430	10.2
325412T100	Pharmaceutical preparations for veterinary use.....	2,360,055	64,082	2.7	284,116	2,580,089	11.0
<b>2003</b>							
	Pharmaceutical preparations.....	107,561,388	3,201,667	3.0	4,857,860	109,217,581	4.4
3254121100	Pharmaceutical preparations affecting neoplasms, endo- crine system, and metabolic diseases, for human use.....	20,064,796	1,013,912	5.1	2,306,680	21,357,564	10.8
3254124100	Pharmaceutical preparations acting on the central nervous system and sense organs, for human use.....	24,759,304	188,939	0.8	533,656	25,104,021	2.1
3254127100	Pharmaceutical preparations acting on the cardiovascular system, for human use.....	9,670,724	36,418	0.4	249,080	9,883,386	2.5
325412A100	Pharmaceutical preparations acting on the respiratory system, for human use.....	r/ 13,757,675	84,472	0.6	8,579	13,681,782	0.1
325412D100	Pharmaceutical preparations acting on the digestive or genito-urinary system, for human use.....	r/ 15,051,690	46,172	0.3	168,452	15,173,970	1.1
325412G100	Pharmaceutical preparations acting on the skin, for human use.....	3,082,863	228,476	7.4	105,847	2,960,234	3.6
325412L100	Vitamin, nutrient, and hematinic preparations, for human use.....	6,876,680	287,792	4.2	81,077	6,669,965	1.2
325412P100	Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....	11,848,410	1,257,395	10.6	1,178,042	11,769,057	10.0
325412T100	Pharmaceutical preparations for veterinary use.....	r/ 2,449,246	58,091	2.4	226,447	2,617,602	8.7

r/Revised by 5 percent or more from previously published data.

1/Source: Census Bureau report EM 545, U.S. Exports.

2/Source: Census Bureau report IM 145, U.S. Imports for Consumption.

3/Apparent consumption represents new domestic supply and is derived by subtracting exports from the total of manufacturers' shipments plus imports.



Table 4. Comparison of North American Industry Classification System (NAICS)-Based Product Codes with Schedule B Export Codes, and HTSUSA Import Codes: 2004

Product code	Product description	Export code 1/	Import code 2/
3254121100	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic disease.....	3003.31.0000, 3003.39.0000, 3003.40.0000, 3004.31.0000, 3004.32.0000, 3004.39.0050, 3004.90.9015	3003.31.0000, 3003.39.1000, 3003.39.5000, 3003.40.0000, 3004.31.0000, 3004.32.0000, 3004.39.0050, 3004.90.9015
3254124100	Pharmaceutical preparations acting on central nervous system and sense organs.....	3004.40.0020, 3004.40.0030, 3004.40.0040, 3004.90.9025, 3004.90.9030, 3004.90.9035, 3004.90.9040	3004.40.0020, 3004.40.0030, 3004.40.0040, 3004.90.9030, 3004.90.9035, 3004.90.9040
3254127100	Pharmaceutical preparations acting on cardiovascular system.....	3004.40.0010, 3004.90.9020	3004.40.0010, 3004.90.9020
325412A100	Pharmaceutical preparations acting on respiratory system.....	3004.40.0060, 3004.90.9075, 3004.90.9080, 3004.90.9085	3004.40.0060, 3004.90.9075, 3004.90.9080, 3004.90.9085
325412D100	Pharmaceutical preparations acting on digestive or genitro-urinary system.....	3004.90.9050, 3004.90.9055, 3004.90.9060, 3004.90.9065, 3004.90.9070, 3006.60.0000	3004.90.9050, 3004.90.9055, 3004.90.9060, 3004.90.9065, 3004.90.9070, 3006.60.0000
325412G100	Pharmaceutical preparations acting on skin.....	3004.40.0050, 3004.90.9045	3004.40.0050, 3004.90.9045
325412L100	Vitamin, nutrient and hematinic preparations.....	3004.50.4500, 3004.50.5010, 3004.50.5020, 3004.50.5030, 3004.50.5040	3004.50.1000, 3004.50.2000, 3004.50.3000, 3004.50.4000, 3004.50.5010, 3004.50.5020, 3004.50.5030, 3004.50.5040
325412P100	Pharmaceutical preparations affecting parasitic and infective disease.....	3003.10.0000, 3003.20.0000, 3004.10.1020, 3004.10.1045, 3004.10.5045, 3004.10.5060, 3004.20.0020, 3004.20.0030, 3004.20.0060, 3004.90.1000, 3004.90.9005, 3004.90.9010	3003.10.0000, 3003.20.0000, 3004.10.1020, 3004.10.1045, 3004.10.5045, 3004.10.5060, 3004.20.0020, 3004.20.0030, 3004.20.0060, 3004.90.1000, 3004.90.9005, 3004.90.9010
325412T100	Pharmaceutical preparations, for veterinary use.....	3004.10.1010, 3004.10.5010, 3004.20.0010, 3004.39.0010, 3004.40.0005, 3004.50.5005, 3004.90.9003	3004.10.1010, 3004.10.5010, 3004.20.0010, 3004.39.0010, 3004.40.0005, 3004.50.5005, 3004.90.9003

1/Source: 2004 edition, Harmonized System-based Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States.

2/Source: Harmonized tariff Schedule of the United States, Annotated (2004).

# Appendix.

## General CIR Survey Information, Explanation of General Terms and Historical Note

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### GENERAL

The CIR program has been providing monthly, quarterly, and annual measures of industrial activity for many years. Since 1904, with its cotton and fats and oils surveys, the CIR program has formed an essential part of an integrated statistical system involving the quinquennial economic census, manufacturing sector, and the annual survey of manufactures. The CIR surveys, however, provide current statistics at a more detailed product level than either of the other two statistical programs.

The primary objective of the CIR program is to produce timely, accurate data on production and shipments of selected products. The data are used to satisfy economic policy needs and for market analysis, forecasting, and decision making in the private sector. The product-level data generated by these surveys are used extensively by individual firms, trade associations, and market analysts in planning or recommending marketing and legislative strategies, particularly if their industry is significantly affected by foreign trade. Although production and shipments information are the two most common data items collected, the CIR program collects other measures also such as inventories, orders, and consumption. These surveys measure manufacturing activity in important commodity areas such as textiles and apparel, chemicals, primary metals, computer and electronic components, industrial equipment, aerospace equipment, and consumer goods.

The CIR program uses a unified data collection, processing, and publication system. The U.S. Census Bureau updates the survey panels for most reports annually and reconciles the estimates to the results of the broader-based annual survey of manufactures and the economic census, manufacturing sector. The manufacturing sector provides a complete list of all producers of the products covered by the CIR program and serves as the primary source for CIR sampling. Where a small number of producers exist, CIR surveys cover all known producers of a product. However, when the number of producers is too large, cutoff and random sampling techniques are used. Surveys are continually reviewed and modified to provide the most up-to-date information on products produced. The CIR program includes a group of mandatory and voluntary surveys. Typically the monthly and quarterly surveys are conducted on a voluntary basis. Those companies that choose not to respond to the voluntary surveys are required to submit a mandatory annual counterpart corresponding to the more frequent survey.

### NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM (NAICS), 1997

The adoption of the North American Industry Classification System (NAICS) in the 1997 Economic Census has had a major impact on the comparability of current and historic data. Approximately half of the industries in the manufacturing sector of NAICS do not have comparable industries in the Standard Industrial Classification (SIC) system that was used in the past.

While most of the change affecting the manufacturing sector was change within the sector, some industries left manufacturing and others came into manufacturing. Prominent among those that left manufacturing are logging and portions of publishing. Prominent among the industries that came into the manufacturing sector are bakeries, candy stores where candy is made on the premises, custom tailors, makers of custom draperies, and tire retreading. The net effect of the classification changes are such that if the 1997 value of shipments data for all manufacturers were tabulated on an SIC basis, it would be approximately 3 percent higher.

Listed below are the NAICS sectors:

- 21 Mining
- 22 Utilities
- 23 Construction
- 31-33 Manufacturing
- 42 Wholesale Trade
- 44-45 Retail Trade
- 48-49 Transportation and Warehousing
- 51 Information
- 52 Finance and Insurance
- 53 Real Estate and Rental and Leasing
- 54 Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 61 Educational Services
- 62 Health Care and Social Assistance
- 71 Arts, Entertainment, and Recreation
- 72 Accommodation and Food Services
- 81 Other Services (except Public Administration)

(Not listed above are the Agriculture, Forestry, Fishing, and Hunting sector (NAICS 11), partially covered by the census of agriculture conducted by the U.S. Department of Agriculture, and the Public Administration sector (NAICS 92), covered by the census of governments conducted by the Census Bureau.)

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The 20 NAICS sectors are subdivided into 96 subsectors (three-digit codes), 313 industry groups (four-digit codes), and, as implemented in the United States, 1170 industries (five- and six-digit codes).

## FUNDING

The Census Bureau funds most of the surveys. However, a number of surveys are paid for either fully or partially by other Federal Government agencies or private trade associations. A few surveys are mandated, but all are authorized by Title 13 of the United States Code.

## RELIABILITY OF DATA

Survey error may result from several sources including the inability to obtain information about all cases in the survey, response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding the reported data, and other errors of collection, response, coverage, and estimation. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to these nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is the imputing of data for nonrespondents, for late reporters, and for data that fail logic edits. Missing figures are imputed based on period-to-period movements shown by reporting firms. A figure is considered to be an impute if the value was not directly reported on the questionnaire, directly derived from other reported items, directly available from supplemental sources, or obtained from the respondent during the analytical review phase. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are suppressed or footnoted. The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual yearly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is assumed to be small. The degree of uncertainty regarding the accuracy of the published data increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

## DATA REVISIONS

Statistics for previous years may be revised as the result of corrected figures from respondents, late reports for which imputations were originally made, or other corrections. Data that have been revised by more than 5 percent from previously published data are indicated by footnotes.

## DISCLOSURE

The Census Bureau collects the CIR data under the authority of Title 13, United States Code, which specifies that the information can only be used for statistical purposes and cannot be published or released in any manner that would identify a person, household, or establishment. "D" indicates that data in the cell have been suppressed to avoid disclosure of information pertaining to individual companies.

## EXPLANATION OF GENERAL TERMS

**Capacity.** The maximum quantity of a product that can be produced in a plant in 1 day if operating for 24 hours. Includes the capacity of idle plants until the plant is reported to be destroyed, dismantled, or abandoned.

**Consumption.** Materials used in producing or processing a product or otherwise removing the product from the inventory.

**Exports.** Includes all types of products shipped to foreign countries, or to agents or exporters for reshipment to foreign countries.

**Gross shipments.** The quantity or value of physical shipments from domestic establishments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale or use. Shipments of products purchased for resale are omitted. Shipments of products made under toll arrangements are included.

**Interplant transfers.** Shipments to other domestic plants within a company for further assembly, fabrication, or manufacture.

**Inventories.** The quantity or value of finished goods, work in progress, and materials on hand.

**Machinery in place.** The number of machines of a particular type in place as of a particular date whether the machinery was used for production, prototype, or sampling, or was idle. Machinery in place includes all machinery set up in operating positions.

**Net receipts.** Derived by subtracting the materials held at the end of the previous month from the sum of materials used during the current month.

**Production.** The total volume of products produced, including: products sold; products transferred or added to inventory after adjustments for breakage, shrinkage, and obsolescence, plus any other inventory adjustment; and products that undergo further manufacture at the same establishment.

**Quantities produced and consumed.** Quantities of each type of product produced by a company for internal consumption within that same company.

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**Quantity and value of new orders.** The sales value of orders received during the current reporting period for products and services to be delivered immediately or at some future date. Also represents the net sales value of contract change documents that increase or decrease the sales value of the orders to which they are related, when the parties concerned are in substantial agreement as to the amount involved. Included as orders are only those that are supported by binding legal documents such as signed contracts or letter contracts.

**Quantity and value of shipments.** The figures on quantity and value of shipments represent physical shipments of all products sold, transferred to other establishments of the same company, or shipped on consignment, whether for domestic or export sale. The value represents the net sales price, f.o.b. plant, to the customer or branch to which the products are shipped, net of discounts, allowances, freight charges, and

returns. Shipments to a company's own branches are assigned the same value as comparable appropriate allocation of company overhead and profit. Products bought and resold without further manufacture are excluded.

**Stocks.** Total quantity of ending finished inventory.

**Unfilled orders (backlog).** Calculated by adding net new orders and subtracting net sales from the backlog at the end of the preceding year.

#### **HISTORICAL NOTE**

Data on pharmaceutical preparations, except biologicals, have been collected by the Census Bureau since 1962. Historical data may be obtained from Current Industrial Reports available at your local Federal Depository Library.